

CURRICULUM VITAE



Mrs. PRAGNALEENA DEBROY

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Tripura Medical College (TMC)
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Agartala, Tripura (W)

Personal Data:

DOB : 09-01-1993
Sex : Female
Marital Status : Married
Nationality : Indian
Category : General (UR)

Hobbies: Singing, Dancing, and
Reading Novels.

Language Proficiency:
Bengali, English & Hindi

Computer Skills:

- Microsoft Office tools
- MATLAB
- PROTEUS
- LabVIEW
- LATEX

Objective:

Seeking for opportunities and secure a position where I can efficiently contribute my skills and abilities for the growth of the organization and my professional career.

Educational Qualification:

Examination	Subject	Board/University	Year	Percentage /Grade
Matriculation	General	TBSE	2009	83.43%
Higher Secondary	Science	TBSE	2011	74.8%
B.Tech	Electronics & Instrumentation Engineering	NIT Agartala	2015	8.62
M.Tech	Electrical Engineering	Tripura University	2018	9.81 (Gold Medalist)
Ph.D	Electronics & Instrumentation Engineering	NIT Silchar	Thesis Submitted	9.67 (Course work)

Professional Profile Highlights

Experiences:

- Experienced as a **Teaching Assistant (TA)** in NIT Silchar, Assam.

Publications:

- Published Journal named “**A simulation based water quality parameter control of aquaponic system employing model predictive control strategy incorporation with optimization technique**” in Environmental Progress & Sustainable Energy (SCIE) as first author.
- Published Journal named “**OPA-IF-Neutrosophic-TOPSIS Strategy under SVNS Environment Approach and Its Application to Select the Most Effective Control Strategy for Aquaponic System**” in Informatica (SCIE) as first author.
- Published Journal named “**OPA-IF-SVNF-MARCOS Decision Framework and its Application to Determine the Optimal Fish Species for Integration into an Aquaponic System**” in Environmental Progress & Sustainable Energy (SCI, SCIE, SCOPUS) as first author.
- Published Journal named “**Analysis of Opportunities and Challenges of Smart Aquaponic System: A Summary of Research Trends and Future Research Avenues**” in Sustainable Environment Research (SCIE, SCOPUS) as first author.
- Published Journal named “**Model-based predictive Greenhouse Parameter Control of Aquaponic System**” in Environmental Science and pollution research (SCOPUS) as first author.
- Published Journal named “**TrF-BWM-Neutrosophic-TOPSIS strategy under svns environment approach and its application to select the most effective water quality parameter of aquaponic system**” in Neutrosophic sets and systems (SCOPUS) as first author.
- Published conference paper named “**A Fish Biomass Prediction Model for**

Aquaponics System Using Machine Learning Algorithms” in ICLMAS-2021.

- **Published conference paper named “A Tomato Fruit Biomass Prediction Model for Aquaponics System Using Machine Learning Algorithms” (IFAC, ELSEVIER) in ACODS-2022.**
- **Published a book chapter named “Intelligent Control Systems for Carbon monoxide Detection in IoT Environment” in the book named “Computer Communications and Network” by SPRINGER.**

Workshops:

- **Attended a hands-on Training on MATLAB Applications in Control Systems and Signal Processing (MACS-2019), at NIT Silchar.**
- **Attended One Week Workshop on Industrial Approach to Process Control & Automation (IAPCA-2019), at NIT Silchar.**
- **Attended GIAN course on ‘Smart Grid: Secure & Sustainable Energy’ at Tripura University.**
- **Participated in one day workshop on ‘e-Waste Management and Information Security’ at NIELIT Agartala.**
- **Participated in a 5 days course on Power Electronics and its Scope of Application in North East India (PEANEI-2017), at NIT Agartala.**
- **Attended 3 weeks workshop on Instrumentation System at ONGC Agartala, Tripura.**
- **Attended 2 weeks workshop on Electronics & Instrumentation Engg. at Durgapur Steel Plant (SAIL), West Bengal.**

Achievements:

- **GOLD MEDALIST in M.Tech.**
- **District Topper in Higher Secondary Examination.**
- **Achieved 11th rank in the State Level Science Exhibition 2009-10 and qualified for National Level Science Exhibition at Kolkata.**

Declaration:

The above statements are true and correct to the best of my knowledge. In case any of the above information is found to be false or untrue or misleading, I am aware that I may be held liable for it.

Place: Agartala

Date: 22/05/2025

Pragnateena Debroy

Signature